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1 starER: a conceptual model for data warehouse design

Nectaria Tryfona, Frank Busborg, Jens G. Borch Christiansen

November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**Full text available: pdf(742.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modeling data warehouses is a complex task focusing, very often, into internal structures and implementation issues. In this paper we argue that, in order to accurately reflect the users requirements into an error-free, understandable, and easily extendable data warehouse schema, special attention should be paid at the conceptual modeling phase. Based on a real mortgage business warehouse environment, we present a set of user modeling requirements and we discuss the involved concepts. Under ...

Keywords: ER model, conceptual modeling, data warehouse, star structure**2 A tightly coupled approach to design and data management**

Flávio R. Wagner, Lia G. Golendziner, Miguel R. Fornari

September 1994 **Proceedings of the conference on European design automation**Full text available: pdf(794.13 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 A comparison of data warehousing methodologies**

Arun Sen, Atish P. Sinha

March 2005 **Communications of the ACM**, Volume 48 Issue 3Full text available: pdf(117.81 KB) html(28.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Using a common set of attributes to determine which methodology to use in a particular data warehousing project.

4 Designing data marts for data warehousesOctober 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 4Full text available: pdf(203.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality management

5 Dynamic maintenance of multidimensional range data partitioning for parallel data processing 

Junping Sun, William I. Grosky

November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(1.09 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

6 Deriving initial data warehouse structures from the conceptual data models of the underlying operational information systems 

Michael Boehlein, Achim Ulbrich-vom Ende

November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years the construction of large scale data schemes for operational systems has been the major problem of conceptual data modeling for business needs. Multidimensional data structures used for decision support applications in data warehouses have rather different requirements to data modeling techniques. In case of operational systems the data models are created from application specific requirements. The data models in data warehouses base on the analytical requirements of the use ...

Keywords: conceptual data model, data warehouse, decision support system, entity relationship model (ERM), snowflake scheme, star schema, structured entity relationship model (SERM)

7 A strategy for the integration of object-oriented data modeling into the undergraduate database course 

Bruce J. Neubauer

March 2001 **Journal of Computing Sciences in Colleges**, Volume 16 Issue 3

Full text available:  pdf(67.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer programming and business-systems design are increasingly embracing the object paradigm. It is important that students learn both traditional methods and object methods in the undergraduate database course. Object-oriented concepts such as generalization hierarchies and aggregation require a substantially different mindset than does the traditional course content. Most database textbooks are attempting to integrate the presentation of the traditional and the object-oriented concepts. ...

8 Event-entity-relationship modeling in data warehouse environments 

Lars Bækgaard

November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(634.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We use the event-entity-relationship model (EVER) to illustrate the use of entity-based modeling languages for conceptual schema design in data warehouse environments. EVER is a general-purpose information modeling language that supports the specification of both general schema structures and multi-dimensional schemes that are customized to serve specific information needs. EVER is based on an event concept that is very well suited for multi-dimensional modeling because measurement data oft ...

Keywords: data warehousing, event modeling, information modeling, multi-dimensional modeling, star schemes

9 **Physical design: Physical modeling of data warehouses using UML** 

Sergio Luján-Mora, Juan Trujillo

November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(640.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the few last years, several approaches have been proposed to model different aspects of a Data Warehouse (DW), such as the conceptual model of the DW, the design of the ETL (Extraction, Transformation, Loading) processes, the derivation of the DW models from the enterprise data models, etc. At the end, a DW has to be deployed to a database environment and that takes many decisions of a physical nature. However, few efforts have been dedicated to the modeling of the physical design (i.e ...)

Keywords: UML, component, configuration, data warehouse, deployment, physical design

10 **Industrial sessions: commercial implementation techniques: Efficient execution of joins in a star schema** 

Andreas Weininger

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(349.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A star schema is very popular for modeling data warehouses and data marts. Therefore, it is important that a database system which is used for implementing such a data warehouse or data mart is able to efficiently handle operations on such a schema. In this paper we will describe how one of these operations, the join operation --- probably the most important operation --- is implemented in the IBM Informix Extended Parallel Server (XPS).

11 **An overview of data warehousing and OLAP technology** 

Surajit Chaudhuri, Umeshwar Dayal

March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Full text available:  pdf(101.60 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

12 A horizontal fragmentation algorithm for the fact relation in a distributed data warehouse

Amin Y. Noaman, Ken Barker

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**Full text available:  pdf(986.60 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data warehousing is one of the major research topics of appliedside database investigators. Most of the work to date has focused on building large centralized systems that are integrated repositories founded on pre-existing systems upon which all corporate-wide data are based. Unfortunately, this approach is very expensive and tends to ignore the advantages realized during the past decade in the area of distribution and support for data localization in a geographically dispersed corporate s ...

Keywords: distributed data warehouse architecture, distributed data warehouse design, horizontal fragmentation

13 Industrial sessions: big data: TPC-DS, taking decision support benchmarking to the next level

Meikel Poess, Bryan Smith, Lubor Kollar, Paul Larson

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**Full text available:  pdf(645.38 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

TPC-DS is a new decision support benchmark currently under development by the Transaction Processing Performance Council (TPC). This paper provides a brief overview of the new benchmark. The benchmark models the decision support functions of a retail product supplier, including data loading, multiple types of queries and data maintenance. The database consists of multiple snowflake schemas with shared dimension tables; data is skewed; and the query set is large. Overall, the benchmark is conside ...

Keywords: TPC, benchmark, data warehouse, decision support, performance evaluation

14 Modelling stars using XML

Jaroslav Pokorny

November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**Full text available:  pdf(2.29 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We suppose collections of XML data described by Document Type Definitions (DTDs). This data has been generated by applications and plays a role of OLTP database(s). A star schema, a well-known technique used in data warehousing, can be applied. Then dimension information is supposed to be contained in XML data. We will use the notions of subDTD and view, and formulate referential integrity constraints in XML environment. We use simple pattern matching capabilities of current XML query languages ...

Keywords: XML, data warehouse, dimension, star schema

15 Articles: Reconsidering Multi-Dimensional schemas

Tim Martyn

March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Full text available:  pdf(163.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper challenges the currently popular "Data Warehouse is a Special Animal" philosophy and advocates that practitioners adopt a more conservative "Data Warehouse=Database" philosophy. The primary focus is the relevancy of Multi-Dimensional logical schemas. After enumerating the advantages of such schemas, a number of caveats to the presumed advantages are identified. The paper concludes with guidelines and commentary on implications for data warehouse design methodologies.

16 Physical design: Handling big dimensions in distributed data warehouses using the DWS technique 

Marco Costa, Henrique Madeira

November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**

Full text available:  pdf(288.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The DWS (Data Warehouse Striping) technique allows the distribution of large data warehouses through a cluster of computers. The data partitioning approach partitions the facts tables through all nodes and replicates the dimension tables. The replication of the dimension tables creates a limitation to the applicability of the DWS technique to data warehouses with big dimensions. This paper proposes a strategy to handle large dimensions in a distributed DWS system and evaluates the proposed str ...

Keywords: data warehousing, distributed query execution

17 Reports: Report on the ACM fourth international workshop on data warehousing and OLAP (DOLAP 2001) 

Joachim Hammer

June 2002 **ACM SIGMOD Record**, Volume 31 Issue 2

Full text available:  pdf(413.34 KB) Additional Information: [full citation](#), [abstract](#)

The Fourth Annual ACM International Workshop on Data Warehousing and Online Analytical Processing (DOLAP 2001) was held in Atlanta, GA, USA, in November 2001, in conjunction with the Tenth International Conference on Information and Knowledge Management (CIKM 2001). Although this was only the fourth annual meeting, DOLAP has already become an important and broadly accepted forum for researchers and practitioners to share their findings in theoretical foundations, current methodologies, practical ...

18 Workshop reports: Report on the ACM fourth international workshop on data warehousing and OLAP (DOLAP 2001) 

Joachim Hammer

April 2002 **ACM SIGIR Forum**, Volume 36 Issue 1

Full text available:  pdf(105.96 KB) Additional Information: [full citation](#)

19 On relationships offering new drill-across possibilities 

Alberto Abelló, José Samos, Fèlix Saltor

November 2002 **Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP**

Full text available:  pdf(236.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

OLAP tools divide concepts based on whether they are used as analysis dimensions, or are the fact subject of analysis, which gives rise to star shape schemas. Operations are always provided to navigate inside such star schemas. However, the navigation among different

stars is usually overlooked. This paper studies different kinds of Object-Oriented conceptual relationships (part of UML standard) between stars (namely *Derivation*, *Generalization*, *Association*, and *Flow*) ...

Keywords: UML, drill-across, multidimensional design, semantics

20 XPS a database server for data warehousing



Andreas Weininger

November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**

Full text available: [pdf\(621.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A database server used for implementing a data warehouse must support other features than a database server used for OLTP. Therefore, in this paper we will look specifically at features necessary for efficiently processing queries on a database with a star schema model, a database scheme which is used very often in data warehousing. We will especially analyze the features provided for this by the IBM Extended Parallel Server (XPS). There are special star join methods like the Push-Down Hash-Semi ...

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